

IN THE CLAIMS:

1-17. (Canceled)

18. (Previously Presented) An injector for injecting fluid from a syringe mounted thereon, the injector comprising:

a housing;

a retaining mechanism associated with the housing for releasably connecting the syringe, the retaining mechanism being movable upon rotation of the syringe between a relaxed state, wherein the syringe is connected by the retaining mechanism, and a tensioned state, wherein the syringe is released from the retaining mechanism, wherein the retaining mechanism comprises a substantially elliptical, flexible ring; and

a grooved, rotating ring operatively connected to the retaining mechanism, wherein rotation of the rotating ring manipulates the retaining mechanism from the relaxed state to the tensioned state.

19. (Previously Presented) The injector of claim 18 wherein the retaining mechanism comprises a substantially circular, flexible ring.

20. (Previously Presented) The injector of claim 18 wherein the retaining mechanism comprises a plurality of segments.

21-25. (Canceled)

26. (Previously Presented) The injector of claim 18, further comprising a sensor adapted to read syringe information provided by an encoding device on a syringe.

27-29. (Canceled)

30. (New) The injector of claim 18 wherein the grooved rotating ring includes an inner surface with the grooves disposed therein.

31. (New) The injector of claim 18 wherein the grooved rotating ring includes an outer surface having at least one cam track disposed thereon.

32. (New) The injector of claim 31 wherein the at least one cam track is shaped such that an outer cam track surface increases in diameter along an arc from a closest point to the center of the grooved rotating ring to a farthest point from the center of the ring.

33. (New) The injector of claim 18 wherein the flexible ring includes posts that extend from an outer surface of the flexible ring.

34. (New) The injector of claim 18 wherein the flexible ring includes flattened portion integrally connected to two curved portions.

35. (New) The injector of claim 34 wherein the post extends from the curved portion.

36. (New) The injector of claim 35 wherein the post extends from the curved portion in a rearward direction.